

# VLV 4 | VLV 12

## CHILLERS 4 | 12 KW

### Off-grid chillers 800 V DC for Battery Energy Storage Systems

- Power supply from 570 up to 800 V DC to directly connect with the battery system with no need for power conversion.
- Off-grid unit, to be mounted inside the cabinet or container of C&I application.
- Safely operates in cold and hot regions, between -25 and +45 °C.
- Internal heater: preserves battery life time in wintertime maintaining a stable minimum temperature of the liquid.
- Variable frequency components (VFD) and micro-channel condenser: high energy efficiency and reliability.
- Error/warning and status reporting for communication with your Battery Management System via Modbus TCP



PRODUCT	VLV 4	VLV 12	
	44070405001	44071205001	Unit
DATA			
Rated Voltage	570/800		V ± 10 %
Cooling capacity (with pump) W30 / A32	4.2	11.6	kW
Heating capacity	3		kW
Flow rate (pump)	36	60	l/min
Pump pressure	2		bar
Refrigerant type	R134a		
Refrigerant quantity	1650		g
Medium	Water+Glycol 50%		
Medium temperature (outlet)	+15 ... +30 (+59 ... +86)		°C (°F)
Target value tolerance	±2		K
Ambient air temperature	-25 ... +45 (-13 ... +113)		°C (°F)
Air volume flow	2000	3000	m³/h
Noise level @ 50 Hz (EN ISO 3741)	66.2		dB(A)
Max. power consumption	2.6	5.6	kW
Max. current consumption	7.5	11.5	A
Control voltage	24 DC		V
Capacity of the tank	5		L
Connection Size (medium)	1"		BSP
Dimensions (with damper feet) (X x Y x Z)	866.5 x 911 (937.5) x 447		mm
Weight (net)	130	160	kg
Degrees of protection of electrical equipment (EN 60529)	IP 54		
Colour	RAL 7035		

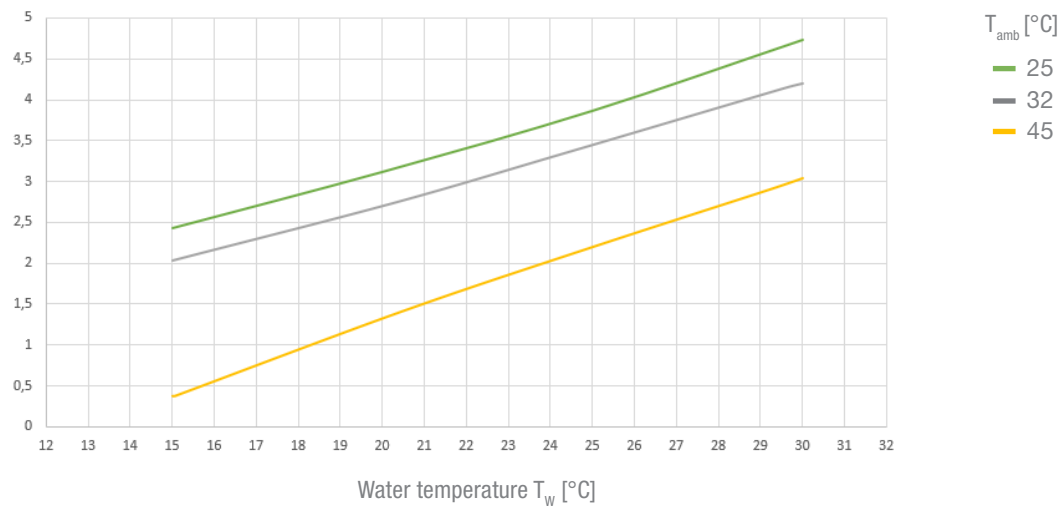
For additional models, options and voltages visit [www.pfannenbergl.com](http://www.pfannenbergl.com) or contact us directly.



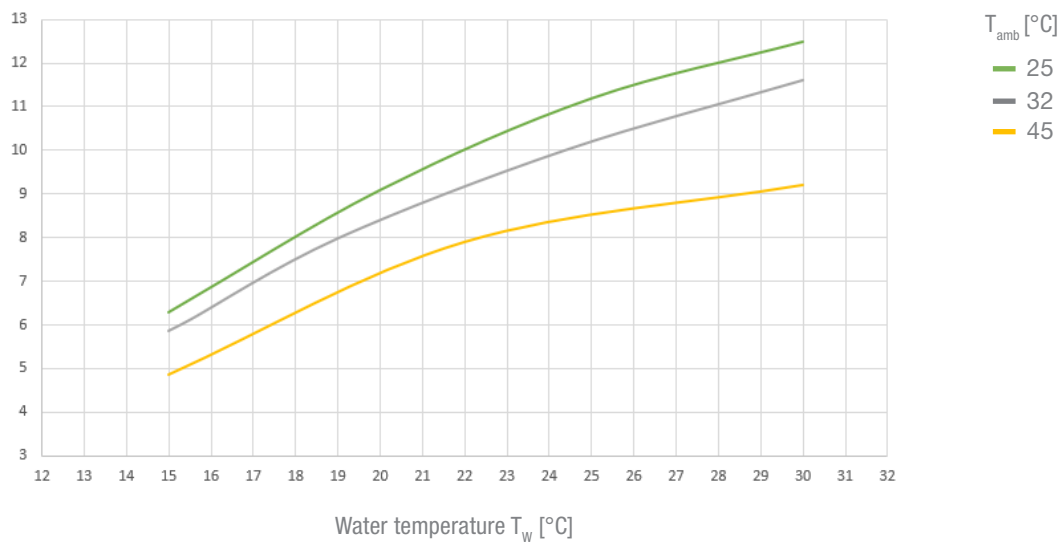
## Cooling capacity performance curves

### VLV 4 | VLV 12

VLV 4 Cooling capacity  $Q_0$  [kW]



VLV 12 Cooling capacity  $Q_0$  [kW]



## Dimensions

mm	VLV 4   VLV 12
<b>X</b>	866.5
<b>Y</b>	911
<b>Z</b>	447

